SECTION 08331

OVERHEAD COILING DOORS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Overhead coiling doors and electric motor operating devices with manual override.

1.2 DESIGN REQUIREMENTS

A. Design door assembly to withstand wind/suction load of 30 psf without undue deflection or damage to door or assembly components.

B. Insulation value: R6.

1.3 SUBMITTALS

A. Submit the following in accordance with the requirements of Section 01300.

1. Catalog data indicating general construction, component connections and details, and electrical equipment requirements.

2. Shop drawings indicating pertinent dimensions, anchorage methods, hardware locations and installation details.

3. Manufacturer's installation instructions indicating installation sequence and procedures, and adjustment and alignment procedures.

4. Operation and maintenance data indicating lubrication requirements, periodic adjustments required, and operation of controls.

1.4 FIELD MEASUREMENTS

A. Verify that field measurements are as indicated on shop drawings.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Ceco/Windsor Door, Model SFWI.

B. Cookson Company, Model FMWI.

C. Kinnear, Model Thermo-Tite.

2.2 MATERIALS

A. Curtain slats: Interlocking, minimum 22 gage exterior face, 24 gage interior face, of ANSI/ASTM A525 steel, galvanized to minimum 1.25 oz/sq ft coating conforming to ASTM G90; sandwich slat construction with foam insulated core.

B. Guides: Continuous, vertical mounted, formed steel angles, mounted with galvanized steel brackets.

C. Roller shaft counterbalance: Steel pipe and helical steel spring system, capable of producing torque sufficient to assure smooth operation of curtain from any position, with

adjustable spring tension.

D. Hood enclosure and facia: Galvanized steel, internally reinforced to maintain rigidity and shape.

E. Hardware:

1. Lock cylinder: As specified in Section 08710.

2. Handle: Inside center mounted, adjustable keeper, spring activated latch bar with feature to keep it in locked or retracted position, interior and exterior handles.

3. Weatherstripping: Moisture and rot proof. resilient type, located at jamb edges, bottom of curtain, and where curtain enters hood enclosure.

2.3 ELECTRIC OPERATOR

A. Operator:

1. Description: ANSI/UL 325, side mounted

2. Motor enclosure: NEMA MG1, Type 1, open drip proof TEFC

3. Motor rating: [1/2] hp, continuous duty

4. Motor voltage: [208] [480] V, [single] [three] phase, 60 Hz

5. Controller enclosure: NEMA 250 ,Type [1] [4]

6. Door speed: 12 inches per second

7. Brake: Adjustable friction clutch type, activated by the motor controller

B. Controller: Standard three button (OPEN-STOP-CLOSE) constant pressure control for each operator; 24 volt circuit, surface mounted.

C. Safety edge: Located at curtain bottom, electro-mechanical sensitized type, wired to stop curtain upon striking an object, hollow neoprene weather seal.

2.4 FINISHES

A. Curtain slats: steel, galvanized and primed

B. Steel guides and hood enclosure: steel, primed

PART 3 EXECUTION

3.1 INSPECTION

A. Verify that opening size, tolerances and conditions are acceptable.

3.2 INSTALLATION

A. Install door assembly in accordance with shop drawings and manufacturer’s instructions.

B. Securely fasten guide assembly to wall construction and building framing without distortion or stress.

C. Securely and rigidly brace components suspended from structure.

D. Fit and assembly, including hardware, to provide smooth operation.

E. Coordinate installation of electrical service.

F. Install perimeter trim and weatherstrip.

3.3 ERECTION TOLERANCES

A. Maximum variation from plumb is 1/8 inch.

B. Maximum variation form level is 1/8 inch.

C. Maximum longitudinal or diagonal warp is plus or minus 1/8 inch per 10 feet straight edge.

END OF SECTION